

## M12 male 0° A-cod. / MSUD valve plug A-18mm

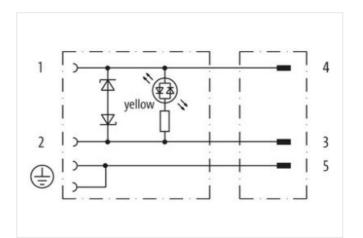
PVC 3X0.75 bk 3m

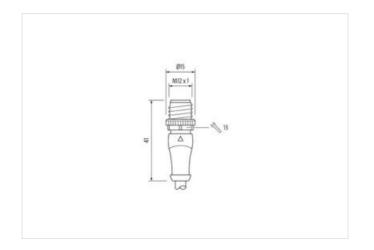
Form A (18 mm) – M12, male straight 110 V AC/DC ±10% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

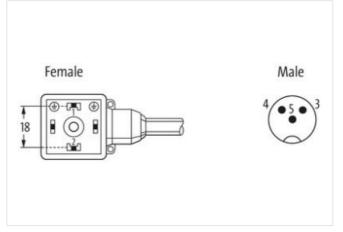
## Link to Product











The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-10 Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk





Product may differ from Image



Cable length	3 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD
Thread	M3
Material	PUR
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Material	PBT
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4065909026625
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	
Operating voltage AC	110 V

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Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk



Cystaling voltage AC max:         12 I V           Cystaling voltage AC max:         110 V           Cystaling voltage AC max:         121 V           Cystaling voltage AC max:         121 V           Cystaling voltage AC max:         121 V           Cystaling voltage AC max:         4 A           Descenting voltage max:         250 V           Current operating per contact max.         4 A           Descenting voltage max:         250 V           Descenting voltage max:         250 V           Descenting voltage max:         250 V           Descenting voltage PC         3           Relater ange voltage         2.5 V           Material ratio (FC 6064-1)         1           Descenting voltage PC         3           Color housing         Nakes           Oder housing         So C	Operating voltage AC min.	99 V
Operating voltage DC min.         94 V           Operating voltage provided max.         26 V           Current operating voltage romatic max.         4 A           Diagnostic         Status indication LED         yollow           Device protection [Electrical         Additional condition protection degree         Inserted, cerweed           Additional condition protection degree         3         Rated surge voltage         2.5 k/V           Material group (IEC 6064-1)         1         Inserted, cerweed         Condition Degree		
Operating vortage DC min.         99 V           Operating vortage DC min.         121 V           Current operating pair contait max.         240 V           Current operating pair contait max.         4 A           Disponetize         Status indication LED           Vertice post-vortage max.         23 V           Carrent operating pair contait max.         4 A           Device protection [Electrical         Vertice post-vortage max.           Additional contained may protection dispone         inserted, sorwed           Polation of contained may         2,5,1V           Material gooin [Electrical         Vertice contained max.           Additional contained dispone         2,5,1V           Material contained field disa         Contained contained dispone           Color housing         black.           Material contained disponetizer         Contained contained disponetizer           Color housing         black.           Material contained disponetizer max.         25 fG           Constraine max         85 fG           Additional contained max max.         85 fG           Additional contained max.         25 fG           Constrain readin         Protect the connectors by solitable measures from mechanical totas, e.g. by the usage of cotable lies.           Note on		
Operating vertifies PC max.         121 V           Cut-off preak voltage max.         250 V           Cut-off preak voltage max.         250 V           Cut-off preak voltage max.         4 A           Diagnostics         Status indication LED           Status indication LED         yellow           Device procession [Electrical         Material group (EC 6604-1)           Additional condition protection degree         3           Rated aurge voltage         2.5 kV           Material group (EC 6604-1)         1           Mechanical data (Material data         Coding locking           Mechanical data (Material data)         Database           Material properties         Preating           Coding locking         Nicklead           Coding locking         Nicklead           Material properties         Rate diagnostics           Mounting methal         Zho die cashing           Mounting were prime statisma data         Rate diagnostics           Environmental characteristics (Climatics         Coloring cashing and thread is for the perminsibility properties max.           Additional condition tromprature max.         85 °C         Coerning temperature max.           Additional condition tromprature max.         85 °C         Coerning temperature max.		
Date of pask voltage max.         250 V           Current operating per contact max.         4 A           Designetatic         Status indication LED         yolkow           Device protection   Electrical         Additional contact max.         A           Additional contact max.         3         Rest array outage         Status array outage           Poliution Degree         3         Rest array outage         Status array outage <td< td=""><td></td><td></td></td<>		
Current operading per contact max.         4 A           Disposities         Status Indication LED         yellow           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Patel strays virtuage         2.5 kV           Material group (IEG 66664-1)         1         Mechanical data (Material data)           Coating looking         Nickelad         Coating looking         Nickelad           Coating looking         Nickelad         Coating looking         Nickelad           Material housing         Plestic         Coating looking         Nickelad           Mounting method         inserted, screwed         Protect         Protect           Poreating temperature max.         85 °G         Operating temperature max.         85 °G           Operating temperature max.         85 °G         Operating temperature max.         85 °G           Additional condition temperature max.         85 °G         Operating temperature max.         85 °G           Additional condition temperature max.         85 °G         Operating temperature max.         85 °G           Additional condition temperature max.         85 °G         Operating temperature max.         85 °G           Additional condition temperature may.		
Disprosits         Status indication LED         yellow           Devices protection   Electrical		
Status indication LED         yellow           Device protection   Electrical		
Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pation Degree         3           Rated surge voltage         2.5 kV           Material group (EC 60664-1)         I           Dechanical data   Material data         Image voltage           Coatr toosing         black           Material group (EC 60664-1)         Image voltage           Coatr toosing         black           Material housing         Patale           Looking material         Zire die casting           Material housing         Patale           Looking material         Zire die casting           Mounting method         inserted, screwed           Environmetal characteristics   Climatic         Climatical data   Mounting data           Operating imperature max.         28 °C           Operating imperature max.         28 °C           Additional condition tomperature range         depending on cable quality           Imperature Max.         28 °C           Note on berding madus         AtterConcectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on berding madus         AtterConcectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on berding madus		vellev
Additional condition protection degree         insertied, screwed           Pollution Degree         3           Reads surge voltage         2.5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data         Insertied data           Coating looking         Makerial forusing           Data         Data           Material fousing         Plastic           Looking method         inserted, screwed           Environmental characteristics   Climatic         Operating temperature max.           Operating temperature max.         85 °C           Additional condition temperature rang.         depending on cable quality           Important intalistion notes         Protect the connectors by sultable measures from mechanical loads, e.g. by the usage of cable liae.           Nole on strain rollel         Protect the connectors by sultable measures from mechanical loads, e.g. by the usage of cable liae.           Adterification         616           Cable Type		yenow
Politation Dagrae         3           Rated surge voltage         2,5 kV           Material group (05 6064+1)         1           Mechanical data   Material data            Coaling looking         Nickeled           Coaling looking         Nickeled           Coaling looking         Nickeled           Color housing         Nickeled           Material housing         Plastic           Locking material         Zinc die-casting           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Co-           Oparating temperature min.         -25 °C           Oparating temperature rank.         85 °C           Additional condition temperature range         depending on cable quality           Importal installation notes         Note on strain reliof           Note on strain reliof         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on strain reliof         Co-           Pacies dendification         Co-           Cable dendification         Co-           Cable dendification         Co-           Cable dendification         Co-           Cable dendification         Since harding social	•	
Rate aurgo voltage         2.5 kV           Material group (IEC 6064-1)         1           Mechanical data   Material data         Color housing           Data (onling)         Nickeled           Color housing         Plaate           Material housing         Plaate           Locking material         Zinc dio-casing           Mechanical data   Mounting data         insorted, screwed           Environmental characteristics   Climatic         Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature ranze         85 °C           Additional condition temperature ranze         85 °C           Additional condition temperature ranze         85 °C           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on bending radius         Attention: Charver the premissible banding radii when taying cables, as the IP protection class can be endagered by excessive bending forces.           Installation Cable         Cable dientification           Cable dientification         616           Cable Type         1           Printing color of wire insulation         white (solation black)           Material color         Baak           Amount stranding		
Material group (IEC 60684-1)         I           Mechanical data   Material data         Coaling locking         Nickolod           Coaling locking         black         Meterial housing         Plastic           Locking material         Zinc die-casting         Mechanical data   Mounting data           Mechanical data   Mounting data         Inserted, screwed         Inserted, screwed           Environmental characteristics   Climatic         Operating temperature max.         85 °C           Additional condition temperature may.         85 °C         Operating temperature max.           Additional condition temperature range         depending on cable quality         Inserted, screwed           Importal installation notes         Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lise.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by escessive bending lorces.         Installation class.           Cable identification         616         Cable identification         616           Cable identification         616         Stranding         Installation plack)           Jacket Color         black         Additional condition temperature may.         Stranding           Stranding         3 wires twisted		
Mechanical data   Material data           Casing locking         Nickoled           Cabir housing         black           Material housing         Plasis           Locking material         Zinc die-casiing           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Operating temperature max.         85 °C           Operating temperature max.         85 °C         Additional condition temperature max.         85 °C           Additional condition temperature max.         85 °C         Additional condition temperature max.         85 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observo the permissible bending radii when laying cables, as the IP protection class can be architection forces.           Installation Cable         E         Cable frippe         1           Printing cotor of wire insulation         white (solation black)         Jacket Color         Jacket Color           Anount stranding         1         Stranding         1         Stranding         Gable frippe		2,5 KV
Cating locking         Nakeled           Color housing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Color housing           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         objerning temperature max.           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be andiagered by excessive bending forces.           Installation   Cable         Cable (dontification           Cable Type         1           Printing color of wire insulation         white (solation black)           Jacket Color         black 1, Black 2, green-yellow           Cable weight         61, 6 g/m           Material jackt         PVC           Shore hardness jackt         80 ± 5 Shore A           Freedom from ingredients (jacket)         Les 4-free, cadnium-free, CFC-free, silicone-free		
Color housing         black           Material housing         Plastic           Locking material         Zinc die-casting           Mechanical dia   Mounting data         Mounting method           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Operating temperature main.         -25 °C           Operating temperature main.         -25 °C	Mechanical data   Material data	
Material housing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting method         inserted, screwed           Environmental characteristics   Climatic         Comparing temperature min.         25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important installation notes         Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation [ Cable         Cable type         1           Printing color of wire insulation         white (solation black)         Jacket Color           Amount stranding         1         Stranding         3 wires twisted           wire arangement         black 1, black 2, green-yellow         Cable weigh         61, 6 g/m           Material jacket         PVC         Strone A         Strone A	Coating locking	Nickeled
Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature max.         85 °C           Additional condition temperature max.         85 °C         Additional condition temperature max.         85 °C           Note on train relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tites.         Note on train relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tites.           Note on banding radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Installation           Installation [ Cable         Cable identification         616           Cable identification         616         Cable identification         516           Jacket Colo         black         Amount stranding         1           Stranding         3 wires twisted         wire arrangement         black 1, black 2, green-yellow           Cable weigth         61,6 g/m         Material acket         PVC           Shore hardness jacket         PVC         Shore har	Color housing	black
Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Comparing temperature min.         -25 °C           Operating temperature max.         85 °C         Additional continuitor temperature max.         85 °C           Additional continuitor temperature max.         85 °C         Additional continuitor temperature max.         85 °C           Important installation motes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Cable identification         616           Cable identification         616         Cable Type           Trinting color of wire insulation         white (isolation black)         jacket Color           Jacket Color         black         Amount stranding         1           Stranding         3 wires twisted         wire arrangement         black 1, black 2, green-yellow           Cable english         61.6 grim         Store A         Freedom from ingredients (jacket)         5,9 mm           Tolerance outer (acket)         5,9 mm         Tolerance outer (anset)         5,5 %         Material jacket         5%	Material housing	Plastic
Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Installation   Cable         Cable identification         616           Cable identification         616         Cable identification           Jacket Color         black         Protect black           Amount stranding         1         Printing color of wire insulation           wrie arrangement         black 1, black 2, green-yellow         Cable weigh           Gable weigh         61,6 g/m         Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A         Freedom from ingredients (jacket)         iead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.9 mm         10         10           Toolarmoter (jameter (jsheath)         ± 5 %         Material properties wire insulation         PVC <td< td=""><td>Locking material</td><td>Zinc die-casting</td></td<>	Locking material	Zinc die-casting
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Note on strain relief           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification           Gable identification         616           Cable identification         black           Amount Stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weighth         61,6 g/m           Material jacket         PVC           Shore hardness jacket!         80 ± 5 Shore A           Freedom from ingredients (jacket)         1.5 %           Material vive insulation         1.5 %           Material jacket         PVC           Androw Stranding         1.5 %           Material jacket         So the subject insulation           Vive Gameeter (sheath)	Mechanical data   Mounting data	
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Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Cable identification         616           Cable Identification         616         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Cable identification         616           Cable Ioppe         1         Printing color of wire insulation         white (isolation black)           Jacket Color         black         Amount stranding         1           Stranding         3 wires twisted         wire arrangement         black 1, green-yellow           Cable weigth         61,6 g/m         Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A         Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.9 m         Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         NVC         Amount wires         3	Environmental characteristics   Climatic	
Additional condition temperature range         depending on cable quality           Important installation notes         Additional condition temperature range         depending on cable quality           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification         616           Cable of of wire insulation         while (isolation black)         Jacket Color           Amount stranding         1         Stranding         1           Stranding         3 wires twisted         Stranding         1           Wrie arrangement         black 1, black 2, green-yellow         Cable weigth         61,6 g/m           Material jacket         PVC         Store A         Stranding         Store A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free         Store / Gameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %.         Material wrie insulation         1.8 mm           Outer diameter insulation         1.8 mm         Store D         Material properties wire insulation           Outer diameter ine	Operating temperature min.	-25 °C
Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification           Cable identification         616           Cable Identification         616           Cable Identification         black           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weigth         61.6 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         4 ± 5	Operating temperature max.	85 °C
Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification         616           Cable Type         1         Printing color of wire insulation         white (isolation black)           Jacket Color         black         Attention: Observe the generative strategies and the strategies of the strateg	Additional condition temperature range	depending on cable quality
Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification         616           Cable identification         0 if 6         Printing color of wire insulation         Printing color of wire insulation           Printing color of wire insulation         white (isolation black)         Jacket Color         black           Amount stranding         1         Stranding         Stranding         Stranding           Vire arrangement         black 1, black 2, green-yellow         Cable weigth         61.6 g/m           Material jacket         PVC         Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free         Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %         Material jacket         PVC           Amount wires         3         Outer diameter insulation         1.8 mm           Outer diameter insulation         1.8 mm         Outer diameter tolerance core insulation         43 ± 5 Shore D           Material previews wire insulation         43 ± 5 Shore D         Material previews wire insulation         43 ± 5 Shore D           Material previews wire insulation	Important installation notes	
Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification         616           Cable identification         0 if 6         Printing color of wire insulation         Printing color of wire insulation           Printing color of wire insulation         white (isolation black)         Jacket Color         black           Amount stranding         1         Stranding         Stranding         Stranding           Vire arrangement         black 1, black 2, green-yellow         Cable weigth         61.6 g/m           Material jacket         PVC         Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free         Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %         Material jacket         PVC           Amount wires         3         Outer diameter insulation         1.8 mm           Outer diameter insulation         1.8 mm         Outer diameter tolerance core insulation         43 ± 5 Shore D           Material previews wire insulation         43 ± 5 Shore D         Material previews wire insulation         43 ± 5 Shore D           Material previews wire insulation	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation   Cable         Cable identification       616         Cable Type       1         Printing color of wire insulation       white (isolation black)         Jacket Color       black         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weigth       61,6 g/m         Material jacket       PVC         Shore hardness jacket       80 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, silicone-free         Outer-diameter (jacket)       5,9 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PVC         Amount wires       3         Outer diameter insulation       1,8 mm         Outer diameter tolerance core insulation       43 ± 5 Shore D         Material properties wire insulation       43 ± 5 Shore D         Material properties wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Printing color of wire insulation       k3 ± 5 Shore D         Material properties wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Printing color of wire insulation       white (isolation black)		
Cable identification616Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorblackAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth61.6 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulation43 ± 5 Shore DMaterial properties wire insulationka ± 5 %Phore hardness wire insulationka ± 5 %Printing color of wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationka ± 5 Shore DMaterial properties wire insulationka ± 5 %Shore hardness wire insulationka ± 5 Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the iP protection class can be
Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorblackAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth61,6 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCShore hardness wire insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwite isolationViter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwite (isolation black)		endangered by excessive bending forces.
Printing color of wire insulationwhite (isolation black)Jacket ColorblackAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth61,6 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCShore hardness wire insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationgood machinabilityIngredient freeness wire insulationked-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)	Installation   Cable	endangered by excessive bending forces.
Jacket Color       black         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weigth       61,6 g/m         Material jacket       PVC         Shore hardness jacket       80 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, silicone-free         Outer-diameter (jacket)       5,9 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PVC         Amount wires       3         Outer diameter tolerance core insulation       1,8 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       43 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Printing color of wire insulation       white (isolation black)	Installation   Cable Cable identification	endangered by excessive bending forces. 616
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Outer diameter insulation       1,8 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       43 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Printing color of wire insulation       white (isolation black)	Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)	endangered by excessive bending forces. 616 1 white (isolation black) black 1 3 wires twisted black 1, black 2, green-yellow 61,6 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 %
Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       43 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Printing color of wire insulation       white (isolation black)	Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation	endangered by excessive bending forces. 616 1 white (isolation black) black 1 3 wires twisted black 1, black 2, green-yellow 61,6 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC
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Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Printing color of wire insulation     white (isolation black)	Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter insulationOuter diameter tolerance core insulationOuter diameter tolerance core insulation	endangered by excessive bending forces. 616 1 white (isolation black) black 1 3 wires twisted black 1, black 2, green-yellow 61,6 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1,8 mm ± 5 %
Printing color of wire insulation white (isolation black)	Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulation	endangered by excessive bending forces.         616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm         ± 5 %         43 ± 5 Shore D
	Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationMaterial properties wire insulation	endangered by excessive bending forces.         616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm         ± 5 %         43 ± 5 Shore D         good machinability
Amount strands (wire) 24	Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter insulationOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulation	endangered by excessive bending forces. 616 1 white (isolation black) black 1 3 wires twisted black 1, black 2, green-yellow 61.6 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1.8 mm ± 5 % 43 ± 5 Shore D good machinability lead-free, cadmium-free, CFC-free, silicone-free
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The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-10

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Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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